

1    **5.15       TRANSPORTATION AND TRAFFIC**

2    **5.15.1     Regulatory Setting**

3    Federal regulations concerning motor vehicle use are contained in 49 CFR Parts 300 through 399  
4    and 500 through 599 and are implemented by the Federal Highway Administration and National  
5    Highway Traffic Safety Administration.

6    California laws concerning vehicular use of roadways are contained in the Vehicle Code and are  
7    implemented by Caltrans and the State Highway Patrol. Each encroachment in Caltrans ROW  
8    requires a Caltrans encroachment permit. For this project, two Caltrans districts would be  
9    involved in processing encroachment permits: District-4 (Oakland) and District-7 (Los Angeles).

10   Local traffic and transportation policy is implemented through city and county plans and law  
11   enforcement agencies. A construction permit is required from each local jurisdiction (cities and  
12   counties) for construction and installation activities. The construction permit approvals are  
13   contingent on approval by the local agency of a Construction Traffic Management Plan (CTMP)  
14   designed to minimize construction traffic and parking impacts.

15   **5.15.2     Environmental Setting**

16   The San Francisco Bay Area and the Los Angeles Area are served by well-developed networks of  
17   interstate freeways, U.S. highways, state routes, county roads, and local streets, as well as mass  
18   transit systems. Regional rail systems providing passenger service in the Bay Area include  
19   Caltrain and Bay Area Rapid Transit (BART). The Los Angeles Area is served by the Los Angeles  
20   County Metropolitan Transit Authority (MTA). The Union Pacific Railroad (UPRR) provides  
21   freight service in both the Bay Area and Los Angeles Area.

22   **5.15.2.1   San Francisco Bay Area Network**

23   The Metromedia backbone route follows the UPRR right-of-way between the cities of Oakland and  
24   San Jose (East Bay Backbone) and the Caltrain right-of-way between the cities of San Francisco and  
25   San Jose (Peninsula Backbone). These rights-of-way cross a number of freeways, regional arterials,  
26   and local streets. Roadway crossings along the East Bay and Peninsula backbones occur in one of  
27   three ways: (1) railroad overcrossings (via elevated railroad structure or grade separation); (2)  
28   roadway overcrossings (via elevated roadway structure or grade separation) where the crossing  
29   travel flows are physically separated; and (3) at-grade crossings where separation of the travel  
30   flows requires traffic control (e.g., gates, signals, warning lights).

31    *East Bay Backbone Route*

32   The East Bay Backbone route follows the UPRR right-of-way through Alameda and Santa Clara  
33   counties, including the cities of Oakland, San Leandro, Hayward, Union City, Fremont, Milpitas,  
34   and San Jose. Of 119 roadway crossings along the East Bay Backbone, the right-of-way is  
35   physically separated from those roadways by railroad overcrossings at 20 locations and by  
36   roadway overcrossings at 14 locations, which leaves the right-of-way at-grade with roadways at 85  
37   locations. Additionally, BART crosses the East Bay Backbone at two locations.

1 *Peninsula Backbone Route*

2 The Peninsula Backbone route continues north from San Jose following the Caltrain right-of-way  
3 through Santa Clara, San Mateo, and San Francisco counties, including the cities of Santa Clara,  
4 Sunnyvale, Mountain View, Palo Alto, Menlo Park, Atherton, Redwood City, San Carlos, Belmont,  
5 San Mateo, Burlingame, Millbrae, San Bruno, South San Francisco, Brisbane, and San Francisco. Of  
6 114 roadway crossings along the Peninsula Backbone, the right-of-way is physically separated  
7 from those roadways by railroad overcrossings at 32 locations and by roadway overcrossings at  
8 another 32 locations, which leaves the right-of-way at-grade with roadways at 50 locations.

9 *Pacific Bell Structure*

10 As described and illustrated in section 4.1.3, the Pacific Bell Structure consists of a number of  
11 segments located throughout the Bay Area. These segments include: (1) the Marin County  
12 Segment, which extends north from Sausalito through Larkspur to San Rafael, and includes an  
13 extension through Richmond and Berkeley to Oakland; (2) the Oakland Segment in downtown  
14 Oakland; (3) the Walnut Creek Segment, which extends to Walnut Creek, then continues southeast  
15 to Danville, San Ramon, and Dublin, and west toward Hayward; (4) the Hayward Segment in  
16 Hayward; (5) the Dumbarton Crossing Segment, which crosses the Bay from Fremont and  
17 Newark to Menlo Park via the Dumbarton Bridge; and (6) the Peninsula Segment, which  
18 approximately parallels the Peninsula Backbone route from San Jose through Mountain View and  
19 Redwood City to Belmont.

20 Most of the length of each Pacific Bell Structure segment follows public roadways. The roadways  
21 in which new build construction would occur longitudinally are listed in Table 5.15-1. Each  
22 roadway is described by number of lanes and roadway classification. Please refer to section 4.1.3  
23 for the specific limits of each new build segment.

24 **5.15.2.2 Los Angeles Basin Network**

25 Most of the length of each Los Angeles Basin Network segment would follow public roads with a  
26 short section in a UPRR right-of-way. The roads in which new build construction would occur  
27 longitudinally are listed in Table 5.15-2. Each road is described by number of lanes and roadway  
28 classification. Please refer to section 4.2 for the specific limits of each new build segment.

**Table 5.15-1. Roadways along Alignment of Pacific Bell Structure (New Build Segments)**

<i>Location</i>	<i>Roadway</i>	<i>Number of Lanes</i>	<i>Roadway Class<sup>a</sup></i>
MARIN COUNTY SEGMENT			
Sausalito	2 <sup>nd</sup> Street	2	Arterial
	Bridgeway Street	2	Arterial
Larkspur	Magnolia Avenue	2	Arterial
San Rafael	Rice Drive	2	Local
	Francisco Boulevard West	2	Local
	Francisco Boulevard East	2	Minor Arterial
Richmond	MacDonald Avenue	4	Arterial
Berkeley	Bancroft Way	2	Local w/o Milvia Collector e/o Milvia
		2	
	Grant Street	2	Local
	Channing Way	2	Local
	Milvia Street	2	Collector
Oakland	Shattuck Avenue	2	Collector
OAKLAND SEGMENT			
Oakland	Brush Street	4	Arterial
	Jefferson Street	2	Local
	Clay Street	2	Local
	Harrison Street	4	Arterial
	23 <sup>rd</sup> Street	2	Local
	20 <sup>th</sup> Street	4	Collector
	17 <sup>th</sup> Street	4	Collector
	14 <sup>th</sup> Street	4	Collector
	12 <sup>th</sup> Street	4	Arterial
WALNUT CREEK SEGMENT			
Walnut Creek	Camino Diablo Road	2	Collector
Danville	San Ramon Valley Boulevard	4	Arterial
San Ramon	Bollinger Canyon Road	4	Arterial
Dublin	San Ramon Valley Boulevard	4	Arterial
HAYWARD SEGMENT			
Hayward	Depot Road	2-3	Minor Arterial
	Hesperian Boulevard	6	Major Arterial
	Joyce Street	2	Local
	Mardie Street	2	Local
	Orchard Avenue	2	Minor Arterial
	O'Neil Avenue	2	Local
	Voyager Way	2	Local
	Hathaway Avenue	2-3	Collector
	West A Street	4	Major Arterial

**Table 5.15-1. Roadways along Alignment of Pacific Bell Structure (New Build Segments)**

<i>Location</i>	<i>Roadway</i>	<i>Number of Lanes</i>	<i>Roadway Class <sup>a</sup></i>
DUMBARTON CROSSING SEGMENT			
Menlo Park	Chilco Street	2	Local
Fremont/Newark	Thornton Avenue	2	Arterial
PENINSULA SEGMENT			
Belmont	Old County Road		Arterial
Redwood City	Arguello Street	4	Collector
	El Camino Real	6	Arterial
	Wilson Avenue	2	Local
	Franklin Street	2	Local
Mountain View	Pioneer Way		Collector
San Jose	San Pedro Street	2	Local
	East San Fernando Street	4	Collector
	South 12 <sup>th</sup> Street	2	Local
	South 17 <sup>th</sup> Street	2	Local
	East San Antonio Street	4	Collector
	Post Street	2	Local
	Almaden Boulevard	4	Arterial
POINT OF PRESENCE CONNECTIONS			
Oakland	Webster Street	4	Arterial
	14 <sup>th</sup> Street	4	Collector
	12 <sup>th</sup> Street	4	Arterial
	Franklin Street	4	Collector
<p><i>Note</i></p> <p>a Based in part on applicable city general plan designation of roadways.  Source: ESA 2000a.</p>			

**Table 5.15-2. Roadways along Alignment of Los Angeles Basin Network  
(New Build Segments)**

<i>Location</i>	<i>Roadway</i>	<i>Number of Lanes</i>	<i>Roadway Class <sup>a</sup></i>
BURBANK LOCAL SEGMENT			
Burbank	N. Lankershim Boulevard	4	Arterial
	W. Magnolia Boulevard	4	Collector
	Bakman Avenue	2	Collector
	Otsego Street	2	Collector
	Cahuenga Boulevard	4	Arterial
PASADENA LOCAL SEGMENT			
Pasadena	N. Los Robles Avenue	2/4	Arterial
	E. Orange Grove Boulevard	4	Arterial
	N. Lake Avenue	4	Arterial
	E. Washington Boulevard	4	Collector
	N. Altadena Drive	4	Arterial
	New York Drive	4	Collector
SANTA MONICA LOCAL SEGMENT			
Santa Monica	W. Olympic Boulevard	4	Arterial
	Stewart Street	2	Local
	Colorado Street	4	Collector
	26 <sup>th</sup> Street	4	Collector
	Broadway Street	2	Collector
	7 <sup>th</sup> Street	2	Arterial
	2 <sup>nd</sup> Street	2	Collector
	Main Street	2	Collector
	W. Pico Boulevard	4	Arterial
	S. Ocean Avenue	4	Arterial
	Arizona Avenue	2	Collector
	Centinela Avenue	2	Collector
	E. Wilshire Boulevard	4	Arterial
GLENDALE LOCAL SEGMENT			
Glendale	N. Brand Street	4	Collector
	E. Harvard Street	4	Collector
	Central Avenue	6	Arterial
	Doran Street	4	Collector
	S. Glendale Avenue	4	Collector

**Table 5.15-2. Roadways along Alignment of Los Angeles Basin Network  
(New Build Segments)**

<i>Location</i>	<i>Roadway</i>	<i>Number of Lanes</i>	<i>Roadway Class<sup>a</sup></i>
CENTURY CITY LOCAL SEGMENT			
Los Angeles	W. Olympic Boulevard	8	Arterial
	S. Beverly Glen Boulevard	4	Arterial
	W. Pico Boulevard	4	Arterial
	Constellation Boulevard	4	Collector
	Century Park East	4	Arterial
	Galaxy Way	4	Collector
	Avenue of the Stars	8	Arterial
W. Santa Monica Boulevard	6	Arterial	
SANTA MONICA TO BURBANK SEGMENT			
Los Angeles	W. Victory Boulevard	4	Arterial
	St. Clair Avenue	4	Collector
	W. Vanowen Street	4	Collector
	Kester Street	4	Arterial
	Greenleaf Street	2	Collector
	Noble Avenue	2	Arterial
	Valley Vista Boulevard	4	Arterial
	Woodcliff Road	4	Collector
	Mulholland Drive	4	Arterial
Beverly Glen Boulevard	4	Arterial	
HOLLYWOOD LOCAL SEGMENT			
Los Angeles	2 <sup>nd</sup> Street	4	Collector
	Glendale Blvd.	4	Arterial
	Park Avenue	4	Collector
Hollywood	Sunset Boulevard	4	Arterial
	Bates Avenue	2	Collector
	Talmadge Street	2	Collector
	Franklin Avenue	2	Collector
	Vermont Avenue	4	Arterial
	Sunset Boulevard	4	Arterial
	Alexandria Avenue	2	Collector
	Fountain Avenue	2	Collector
	Van Ness Avenue	2	Collector
	Melrose Avenue	4	Arterial
	Gower Avenue	2	Collector
	Sunset Boulevard	4	Arterial
	Seward Street	2	Collector
	De Longpre	2	Collector
Formosa Street	2	Collector	

**Table 5.15-2. Roadways along Alignment of Los Angeles Basin Network  
(New Build Segments)**

<i>Location</i>	<i>Roadway</i>	<i>Number of Lanes</i>	<i>Roadway Class<sup>a</sup></i>
HOLLYWOOD LOCAL SEGMENT			
Hollywood (continued)	Gardner Street	2	Collector
	Santa Monica Boulevard	4	Arterial
	Laurel Avenue	2	Collector
	Fairfax Street	4	Arterial
Beverly Hills	Beverly Boulevard	4	Arterial
	Civic Center Drive	2	Collector
	Foothill Drive	2	Collector
	Alden Drive	2	Collector
MARINA DEL REY LOCAL SEGMENT			
Marina Del Rey	Culver Boulevard	4	Arterial
	Centinela Avenue	4	Collector
	Walsh Avenue	2	Collector
	Bonaparte Avenue	2	Collector
	Glencoe Avenue	2	Collector
	Mindanao Way	4	Collector
	La Villa Marina	2	Collector
	Fiji Way	2	Collector
	Lincoln Boulevard (Highway 1)	4	Arterial
	Braddock Drive	2	Collector
Marshall Street	2	Collector	
LAX/FLORENCE SEGMENT			
Hawthorne	El Segundo Boulevard	6	Arterial
Hawthorne/ Los Angeles/ Inglewood	Hawthorne Boulevard	4	Arterial
Inglewood	La Brea Avenue	4	Arterial
Inglewood/Los Angeles	Florence Avenue	6	Arterial
	Santa Fe Avenue	4	Collector
LAX SEGMENT			
Los Angeles	Airport Boulevard	5	Arterial
	W. 96 <sup>th</sup> Street	3	Collector
	Sepulveda Boulevard (Hwy 1)	8	Arterial
	W. Century Boulevard	8	Arterial
EL SEGUNDO SEGMENT			
El Segundo	Imperial Avenue	6/7	Arterial
	Sepulveda Boulevard	8	Arterial
	E. Maple Avenue	2	Collector
	E. Mariposa Avenue	4/5	Collector
	E. Grand Avenue	6	Collector

**Table 5.15-2. Roadways along Alignment of Los Angeles Basin Network  
(New Build Segments)**

<i>Location</i>	<i>Roadway</i>	<i>Number of Lanes</i>	<i>Roadway Class<sup>a</sup></i>
EL SEGUNDO SEGMENT			
El Segundo (continued)	E. El Segundo Boulevard	6/8	Arterial
	Continental Boulevard	2/6	Collector
	N. Nash Street	4	Collector
	N. Douglas Street	6	Collector
LONG BEACH/DOWNEY SEGMENT			
Downey/Bellflower/Lakewood	Bellflower Boulevard	6	Arterial
CYPRESS/BUENA PARK SEGMENT			
Buena Park/Anaheim	Knott Avenue	6	Arterial
FASHION ISLAND SEGMENT			
Irvine	Corporate Park Avenue	2	Collector
	Alton Parkway	6	Arterial
	Irvine Center Drive	6	Collector
	Spectrum Street	4	Collector
	Fortune Drive	4	Collector
	Gateway Boulevard	4	Collector
	Technology Drive	4	Collector
	Barranca Parkway	4	Arterial
	Pacifica Street	4	Collector
	Laguna Canyon Road	4	Collector
	Culver Drive	6	Arterial
Newport Beach	Jamboree Road	6	Arterial
	Santa Barbara Drive	6	Collector
	Newport Center Drive	4	Collector
	San Miguel Drive	4	Collector
	MacArthur Boulevard	6	Arterial
CARSON/COSTA MESA SEGMENT			
Carson /Long Beach	Santa Fe Avenue	4	Arterial
Long Beach	W. Willow Street	4	Arterial
	N. Pacific Avenue	4	Minor Arterial
	W. Broadway Avenue	4	Collector
	Golden Avenue	3	Collector
	W. Ocean Boulevard	6	Arterial
	Linden Avenue	2	Local
	E. Broadway Avenue	3	Collector
	N. Alamitos Avenue	4	Arterial
	E. 3 <sup>rd</sup> Street	2	Collector
	Junipero Avenue	4	Collector
	E. 7 <sup>th</sup> Street	4	Arterial

**Table 5.15-2. Roadways along Alignment of Los Angeles Basin Network  
(New Build Segments)**

<i>Location</i>	<i>Roadway</i>	<i>Number of Lanes</i>	<i>Roadway Class<sup>a</sup></i>
CARSON/COSTA MESA SEGMENT			
Long Beach (continued)	Termino Street	4	Collector
	E. 15 <sup>th</sup> Street	2	Local
	Ximeno Avenue	4	Collector
	E. Atherton Avenue	4	Arterial
	Clark Avenue	4	Collector
	E. Carson Street	6	Arterial
	N. Los Coyotes Diagonal	4	Arterial
	N. Studebaker Road	4	Arterial
Los Alamitos/Cypress	E. Spring Street	6	Arterial
	Cerritos Avenue	6	Arterial
Cypress	Holder Street	4	Collector
	Katella Avenue	6	Arterial
Stanton/Garden Grove	Knott Street	6	Arterial
Westminster	Golden West Street	6	Arterial
	Humboldt Avenue	2	Collector
	La Pat Street	2	Local
	Westminster Blvd	4	Arterial
	Hoover Street	4	Collector
Westminster/Midway/Garden Grove	Bolsa Avenue	6	Arterial
Santa Ana	W. First Street	6	Arterial
	Fairview Street	6	Arterial
	Alton Avenue	2	Collector
	Bristol Street	6	Arterial
Santa Ana/Irvine	W. MacArthur Blvd	6	Arterial
Irvine	Red Hill Avenue	6	Arterial
	Reynolds Avenue	4	Collector
	Armstrong Avenue	2	Local
IRVINE/COSTA MESA SEGMENTS			
Irvine	Red Hill Avenue	4	Arterial
	Mitchell N.	2	Collector
	Sky Parkway	4	Collector
	Center Drive	2	Collector
	Main Street	6	Arterial
	Armstrong Avenue	2	Collector
	Alton Parkway	4	Arterial
	Jamboree Boulevard	6	Arterial
	Von Karman Avenue	4	Collector

**Table 5.15-2. Roadways along Alignment of Los Angeles Basin Network  
(New Build Segments)**

<i>Location</i>	<i>Roadway</i>	<i>Number of Lanes</i>	<i>Roadway Class<sup>a</sup></i>
IRVINE/COSTA MESA SEGMENTS			
Irvine (continued)	Dupont Drive	4	Collector
	Campus Drive	2	Arterial
	Teller Avenue	2	Collector
	Michelson Drive	2	Collector
	Fairchild Road	2	Collector
Costa Mesa	Flower Street	6	Arterial
	Sunflower Avenue	6	Arterial
	Town Center Drive	4	Collector
	Bristol Street	6	Arterial
	Anton Boulevard	6	Arterial
	Main Street	6	Arterial
	Sandpointe Street	2	Collector
	Hutton Centre Drive	4	Collector
Imperial Avenue	4	Collector	
DOWNTOWN LOS ANGELES SEGMENT			
Los Angeles	1 <sup>st</sup> Street	4	Arterial
	Fremont Street	4	Collector
	Diamond Street	4	Collector
	Los Angeles Street	4	Collector
	9 <sup>th</sup> Street	4	Collector
	11 <sup>th</sup> Street	4	Collector
	12 <sup>th</sup> Street	4	Collector
	Figueroa Street	4	Arterial
	Hill Street	4	Collector
	Temple Street	4	Arterial
	Grand Avenue	4	Arterial
	Beaudry Avenue	2/4	Collector
	Hope Street	4	Collector
	Wilshire Boulevard	4	Arterial
	Flower Street	4	Collector
<p><i>Note:</i>                      a Based in part on applicable city general plan designation of roadways.                      Source: ESA 2000a.</p>			